

# SOUTH BEND LATHE CATALOG 5800

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# SOUTH BEND *Precision* MACHINE TOOLS

ENGINE LATHES • TOOLROOM LATHES • TURRET LATHES • MILLING MACHINES • SHAPERS • DRILL PRESSES • PEDESTAL GRINDERS

## *Precision Built for Precision Machine Work*

For more than fifty years South Bend Lathe has been building Precision Machine Tools exclusively. During that time a vast amount of experience has been gained. It has always been the policy of this company to produce a quality product at a reasonable price. Modern plant facilities plus half a century of "know-how" enable us to build a better product and to give you a better value than ever before.

### PRICES


Prices in this catalog are net f.o.b. South Bend, Indiana unless otherwise stated. In accordance with our established policy prices are subject to change without notice and accordingly prices herein are not necessarily those at which deliveries will be made at any future date because we reserve the right to invoice future deliveries at prices in effect at that time.

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South Bend Lathe Works warrants its products to conform to or excel the specifications set forth in its catalogs in use at the time of sale and reserves the right, at its own discretion, without notice and without making similar changes in articles previously manufactured, to make changes in materials, design, finish, or specifications. South Bend Lathe Works warrants products of its own factory against defects of material or workmanship for a period of one year from date of sale. Liability of South Bend Lathe Works under this warranty shall be limited to replacing, free of charge, f.o.b. South Bend, Indiana, any such parts proving defective within the period of this warranty but South Bend Lathe Works will not be responsible for transportation charges or consequential damages.

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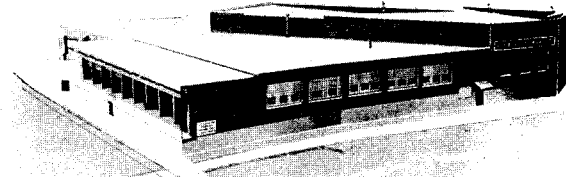
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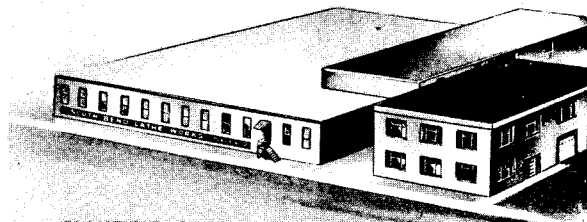
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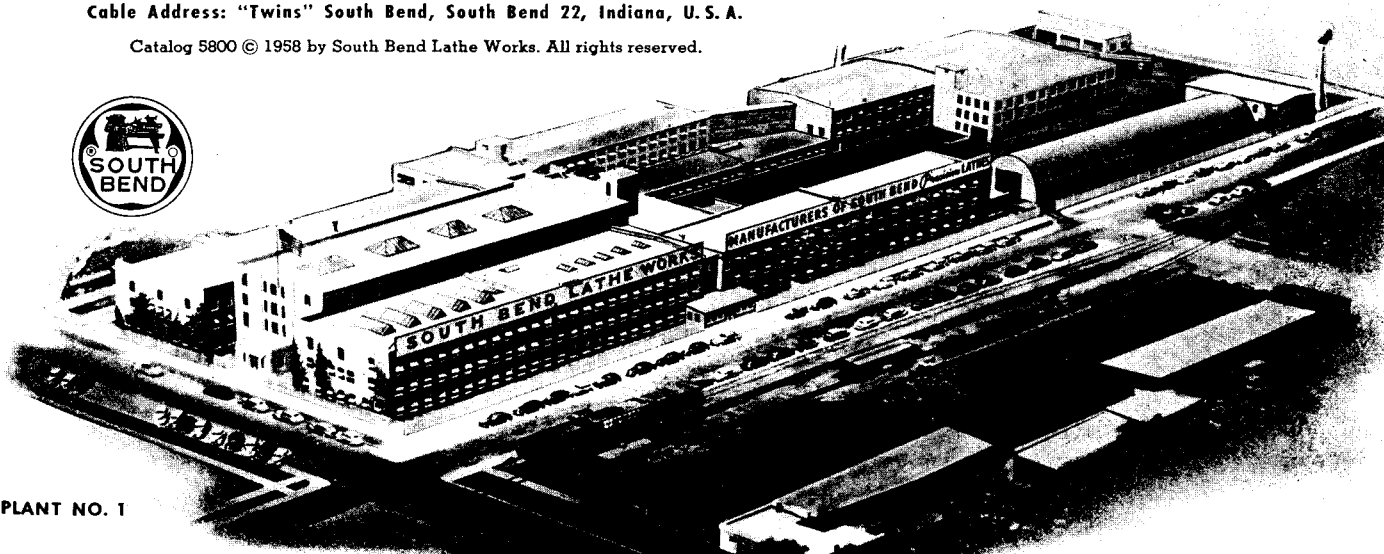
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PLANT NO. 3



PLANT NO. 2



PLANT NO. 1

# Improved SOUTH BEND Precision LATHES

FEATURES OF 10"-1 1/16" COLLET AND LARGER SIZES

## DEPENDABLE QUALITY

You can depend on the quality of South Bend Lathes because they are designed and built by men who take pride in their craftsmanship. Each operation, each part, each assembly, each lathe is manufactured to exacting specifications. Inspection is frequent and rigid. Parts that do not "measure up" are discarded. Final tests are recorded on a factory test card similar to the one shown and are kept on file in our office permanently.

Continual research has resulted in many improvements which contribute to the accuracy, durability, and ease of operation of South Bend Lathes. Each new design is thoroughly tested in our experimental laboratory or by actual use in our own shops (usually both) before it is approved for production.

## SMOOTH POWER

Direct belt drive to the spindle gives you the smooth, silent power so essential for high speed precision finishing operations. For heavy cuts you have a powerful back-gear drive. Motor and driving mechanism are fully enclosed in base of lathe. Quick acting belt tension release and convenient back-gear lever permit changing spindle speeds quickly and easily.

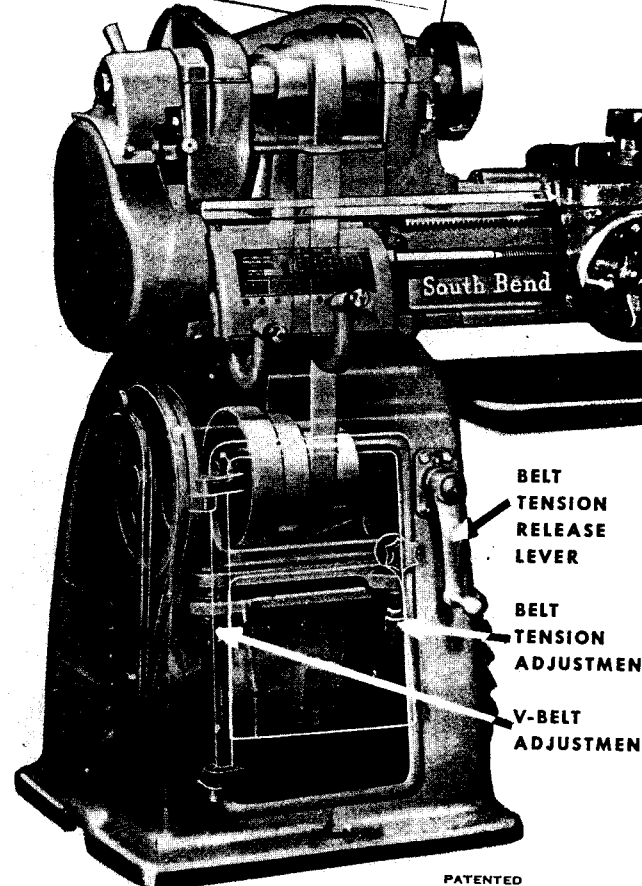
## SUPERFINISHED SPINDLE

Headstock spindle bearing surfaces are hardened, ground and superfinished to a surface smoothness of five microinches (.000005") r.m.s. Spindle runs in bronze bearings which are precision bored and burnished to a smoothness of ten microinches (.000010") r.m.s. Large oil reservoirs and capillary wicks circulate clean filtered oil through the bearings. This bearing construction provides rigid support to the spindle and eliminates vibration which sometimes results when ball or roller bearings are used.

## IMPROVED CARRIAGE

New time saving improvements developed by South Bend engineers add to the convenience and ease of operation of the improved carriage. Large, easy reading graduated collars on cross-feed and compound rest screws have non-glare satin finish chrome surface with black lines and figures. Cross-feed screw has ball thrust bearing for smooth, easy operation. Quick-acting lever operated clutch permits instant engagement or dis-

FACTORY TEST CARD		
Lathes Tested Under Own Power At Correct Spindle Speed		
Size of Lathe: <i>14 1/2 x 6</i>	Date: <i>Apr. 4, 1955</i>	
Serial No. <i>2401 FKL 14</i>	Cat. No.	
Type of Drive:	Type of Bed:	
<b>HEADSTOCK SPINDLE</b>		
Outer end of 12" Test Bar runs true	<i>888</i>	<i>H.H.</i>
12" Test Bar parallel with Bed (Top)	<i>0.002</i>	<i>H.H.</i>
12" Test Bar parallel with Bed (Side)	<i>0.004</i>	<i>H.H.</i>
End Play Test	<i>0.001</i>	<i>H.H.</i>
Shoulder Test (Cam action)	<i>OK</i>	<i>H.H.</i>
Bearing Adjustment (Lift Test) Front	<i>OK</i>	<i>H.H.</i>
Bearing Adjustment (Lift Test) Rear	<i>0.002</i>	<i>H.H.</i>
Running Test—High Spindle Speed	<i>OK</i>	<i>H.H.</i>
<b>HEADSTOCK AND TAILSTOCK ALIGNMENT</b>		
Parallel with Lathe Bed (Top)	<i>0.003</i>	<i>H.H.</i>
Tailstock Spindle In	<i>0.005</i>	<i>H.H.</i>
Parallel with Lathe Bed (Side)	<i>0.000</i>	<i>H.H.</i>
Tailstock Spindle In (Side)	<i>0.002</i>	<i>H.H.</i>
Parallel with Lathe Bed (Side)	<i>0.002</i>	<i>H.H.</i>
Tailstock Spindle Extended	<i>0.001</i>	<i>H.H.</i>
<b>LEAD SCREW—End Play Test</b>		
Cam Action, Forward	<i>0.001</i>	<i>H.H.</i>
Cam Action, Reverse	<i>0.000</i>	<i>H.H.</i>
<b>SADDLE</b>		
Cross Slide Test	<i>0.000</i>	<i>H.H.</i>
Bearing on Lathe Bed	<i>808</i>	<i>H.H.</i>
<b>COMPOUND REST</b>		
Bearing on Spindle	<i>OK</i>	<i>H.H.</i>
Bearing on Top Slide	<i>OK</i>	<i>H.H.</i>
<b>TESTS FOR NOISE</b>		
Back Gears	<i>OK</i>	<i>H.H.</i>
Cones	<i>OK</i>	<i>H.H.</i>
Primary Gears	<i>OK</i>	<i>H.H.</i>
Gear Box	<i>OK</i>	<i>H.H.</i>
ASSEMBLED BY <i>519</i>		
GENERAL INSPECTION <i>W.K.</i>		
DATE TESTED <i>6-11-55</i> OK'd by <i>W.K.</i>		
FORM NO. 104-B-EX-11-72		



PATENTED

engagement of power feeds. Ground thread cross-feed screw is optional at extra cost. Also available at extra cost is a fine feed apron handwheel with planetary gear reduction for positioning carriage on bed with extreme precision. See page 47. Saddle has long bearings on bed ways with convenient oilers and felt wipers. Both compound rest top and base dovetails have tapered gibs and compound rest swivel is accurately graduated 180°. Carriage lock is conveniently located on right saddle wing. Cross-feed crank and apron handwheel have swivel machine handles. Apron is of the rigid one-piece double wall construction with gear shafts supported on both ends. Large oil reservoir in apron provides automatic lubrication. Half-nuts are dovetailed into back wall of apron and have automatic interlock which prevents engaging power feeds and half-nuts at the same time.

### IMPROVED QUICK CHANGE BOX

Years of research and testing resulted in the improved double tumbler quick change box, an exclusive South Bend feature. Compact, dependable, and easy to set for any desired thread or feed, this mechanism has been copied but never duplicated. The direct reading index chart shows positions of levers for each of 48 screw threads, 48 power longitudinal feeds and 48 power cross-feeds. Wide range quick change box (on 10" lathe only) has an additional 22 changes making a total of 70 threads or feeds. See index chart illustrations.

Standard screw threads are obtained by shifting the two tumbler levers on the gear box. Special stud and intermediate gearing can be supplied at extra cost for diametral pitch worm threads or other special pitches not shown on the index chart. Metric gear box and lead screw can be supplied in lieu of English (no extra cost) or metric transposing gears can be furnished (extra cost) for cutting metric threads. See page 59.

### RIGID LATHE BED

Beds are heavily constructed with large braces cast in at short intervals. Bed castings are made of a special grade of iron with 30 to 70% steel (depending on size) which produces a hard, close-grained metal having unusual strength and long wearing qualities. Headstock, tailstock, and carriage are aligned on bed by three large V-ways and one flat way. Hardened bed ways are optional at small extra cost. See page 28.

Careful inspection is made to be sure that a uniform bearing is obtained the full length of the bed and that all ways are straight and parallel. A serial number is stamped between the front ways at the tailstock end as shown. A record of each lathe is kept and is filed under this number. When attachments or parts are ordered, the serial number of the lathe should always be stated.

MANUFACTURED BY SOUTH BEND LATHE WORKS SOUTH BEND IND. U.S.A.

SOUTH BEND PRECISION LATHE

CATALOG NO. \_\_\_\_\_  
BED LENGTH \_\_\_\_\_  
CHART NO. 1

Screw Thread	Longitudinal Feed	Threads per Inch Feeds in Thousandths											
		4	5	6	7	8	9	10	11	12	13	14	15
24 A	0.010	4	5	6	7	8	9	10	11	12	13	14	15
24 B	0.016	16	18	20	22	23	24	26	28	30	32	34	36
24 C	0.032	32	36	40	44	46	48	52	56	60	64	68	72
24 D	0.064	64	72	80	88	92	96	104	112	120	128	136	144
24 E	0.128	128	144	160	176	184	192	208	224	240	256	272	288

STOP MACHINE BEFORE SHIFTING TUMBLER LEVERS

A B C D E POSITION

Index chart showing threads cut on 13" and larger lathes.

MANUFACTURED BY SOUTH BEND LATHE WORKS SOUTH BEND IND. U.S.A.

SOUTH BEND PRECISION LATHE

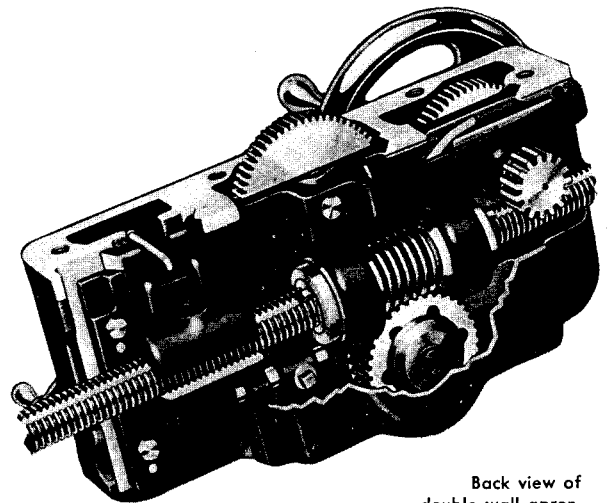
CATALOG NO. \_\_\_\_\_  
BED LENGTH \_\_\_\_\_  
CHART NO. 1

Screw Thread	Longitudinal Feed	Threads per Inch Feeds in Thousandths											
		4	5	6	7	8	9	10	11	12	13	14	15
40 A	0.010	4	5	6	7	8	9	10	11	12	13	14	15
40 B	0.016	16	18	20	22	23	24	26	28	30	32	34	36
40 C	0.032	32	36	40	44	46	48	52	56	60	64	68	72
40 D	0.064	64	72	80	88	92	96	104	112	120	128	136	144
40 E	0.128	128	144	160	176	184	192	208	224	240	256	272	288
40 G	0.256	256	288	320	352	368	384	416	432	448	464	480	496

STOP MACHINE BEFORE SHIFTING TUMBLER LEVERS

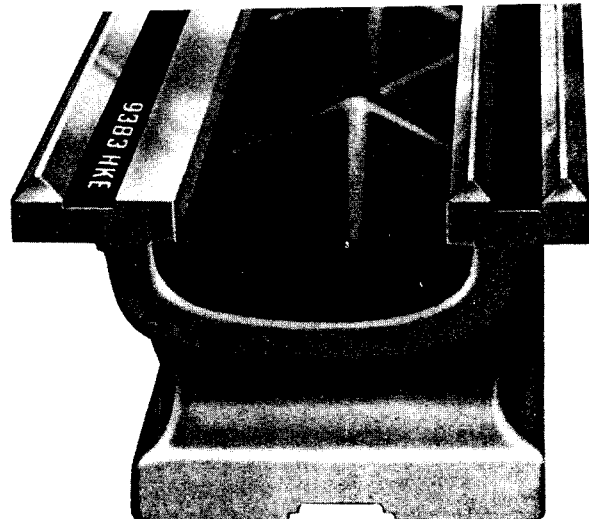
A B C D E F G POSITION

Index chart showing threads cut on 10" lathes.



Back view of double wall apron.

Hardened and ground bed ways are optional at small extra cost. See page 28.



# Specifications

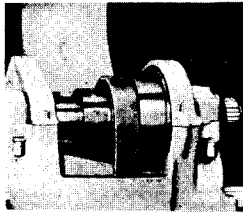
## 10" - 1 1/16" COLLET AND LARGER LATHES

	10"	13"	14 1/2"	16"	16-24"
<b>Capacity</b>					
Swing over bed and saddle wings.....	10-1/8"	13-1/8"	14-5/8"	16-1/4"	25-1/8"
Swing over cross slide, engine lathe.....	5-7/8"	7-3/4"	8-3/4"	9-5/8"	18-3/4"
Swing over cross slide, toolroom lathe.....	5-3/4"	8"	8-15/16"	9-5/8"	.....
Swing over cross slide without chip guard, engine lathe only.....	6-3/4"	8-3/4"	10-1/4"	11-1/8"	19-1/4"
Between centers (various bed lengths).....	14", 20", 27", 34"	16", 28", 40", 52"	24", 36", 48", 60"	33", 45", 57", 81", 105", 129"	30", 42", 54", 78", 102", 126"
<b>Headstock</b>					
Capacity through spindle, nose type collet chuck or lathe chuck.....	1-3/8"	1-3/8"	1-3/8"	1-3/8"	1-3/8"
Maximum collet capacity, hand wheel or hand lever type.....	1-1/16"	1-1/16"	1-1/16"	1-1/16"	1-1/16"
Threaded spindle nose, diameter and threads per inch.....	2-1/4"-8	2-1/4"-8	2-3/8"-6	2-3/8"-6	2-3/8"-6
Cam lock spindle nose, size.....	4" type D1	4" type D1	4" type D1	4" type D1	4" type D1
Long taper key drive spindle nose, size.....	LOO	LOO	LOO	LOO	LOO
Center, Morse taper.....	No. 2	No. 3	No. 3	No. 3	No. 3
Width, each step of 4-step cone pulley.....	1-3/4"	1-3/4"	2-1/16"	2-1/4"	2-1/4"
Width, each step of 3-step cone pulley.....	1-5/16"	2-3/8"	2-25/32"	3"	3"
<b>Spindle Speeds, Standard</b>					
With 4-step cone pulley					
{ 1-speed motor	number.....	8	8	8	8
{ approx. range, r.p.m.....	.....	40-940	30-875	30-980	15-470
{ 2-speed motor	number.....	16	16	16	16
{ approx. range, r.p.m.....	.....	20-940	15-875	15-980	15-900
With 3-step cone pulley					
{ 1-speed motor	number.....	6	6	6	6
{ approx. range, r.p.m.....	.....	40-940	30-875	32-945	14-405
{ 2-speed motor	number.....	12	12	12	12
{ approx. range, r.p.m.....	.....	20-940	15-875	20-945	15-790
Higher spindle speeds available at extra cost, up to.....	2400 r.p.m.	1600 r.p.m.	1200 r.p.m.	1200 r.p.m.	.....
<b>Threads and Feeds</b>					
Number of changes for threads and feeds.....	70	48	48	48	48
Range of threads cut.....	4 to 480	4 to 224	4 to 224	4 to 224	4 to 224
Range of longitudinal feeds.....	.0007" to .0836"	.0015" to .0841"	.0015" to .0841"	.0015" to .0841"	.0015" to .0841"
Range of cross-feeds.....	.0003" to .0303"	.0006" to .0315"	.0006" to .0315"	.0006" to .0315"	.0006" to .0315"
Lead screw, 29° Acme thread, diameter and threads.....	3/4"-8	1"-6	1-1/8"-6	1-1/8"-6	1-1/8"-6
<b>Compound Rest</b>					
Cross slide travel, engine lathe model.....	6-1/4"	8-3/4"	10"	10-1/2"	10-1/2"
Cross slide travel, toolroom lathe model.....	5-7/8"	8-1/8"	9-1/2"	10-1/16"	10-1/16"
Angular hand feed, compound rest top slide.....	2"	3-1/8"	3-1/8"	3-3/4"	3-3/4"
Tool post opening for tool holder shank.....	3/8" x 13/16"	1/2" x 1-1/8"	5/8" x 1-3/8"	5/8" x 1-3/8"	5/8" x 1-3/8"
<b>Tailstock</b>					
Center, Morse taper.....	No. 2	No. 3	No. 3	No. 3	No. 3
Spindle travel.....	2-1/8"	4-1/4"	5-1/4"	5-3/4"	5-3/4"
Set-over of top for taper turning.....	11/16"	15/16"	15/16"	1"	1"
<b>Motor</b>					
Recommended size, one-speed.....	3/4 h.p.	1 h.p.	2 h.p.	2 h.p.	2 h.p.
Recommended size, two-speed.....	1 h.p., 1-1/2 h.p.	1-1/2 h.p., 3/4 h.p.	2 h.p., 1 h.p.	2 h.p., 1 h.p.	2 h.p., 1 h.p.
Optional size, one-speed.....	1 h.p.	1-1/2 h.p.	3 h.p.	3 h.p.	3 h.p.
Optional size, two-speed.....	.....	2 h.p.—1 h.p.	3 h.p.—1-1/2 h.p.	3 h.p.—1-1/2 h.p.	3 h.p.—1-1/2 h.p.

# Only South Bend

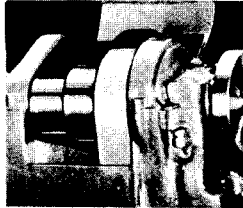
OFFERS ALL THESE

# Optional Features



## FOUR-STEP PULLEY (13" and larger lathes only)

Provides eight spindle speeds with one-speed motor, sixteen speeds with two-speed motor. Desirable for toolroom work and finishing operations.



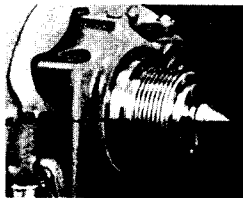
## THREE-STEP PULLEY

Provides 6 or 12 spindle speeds with one-speed motor, 12 or 24 with two-speed motor. Wide belt transmits maximum power for heavy roughing cuts.



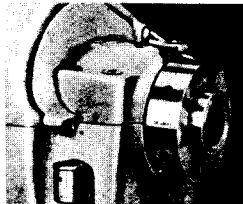
## HARDENED BED WAYS

Hardened and ground bed ways resist wear and scoring. They are supplied to order in lieu of regular bed ways at extra cost. See page 28.



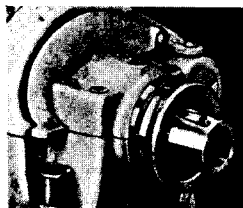
## THREADED SPINDLE

Supplied unless cam lock or long taper key drive spindle is specified. Precision milled thread assures perfect interchangeability of chucks, face plates and work fixtures.



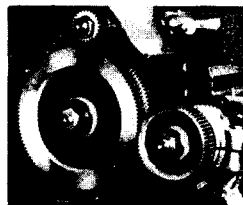
## CAM LOCK SPINDLE

4" Type D1 Cam Lock Spindle supplied to order in lieu of regular threaded spindle at extra cost. Chucks, face plates and other accessories available. See pages 28 and 29.



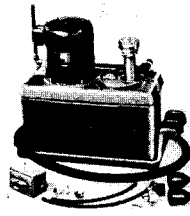
## LONG TAPER SPINDLE

Size L00 Long Taper Key Drive Spindle supplied to order in lieu of regular threaded spindle at extra cost. Chucks, face plates, and other accessories available. See pages 28 and 29.



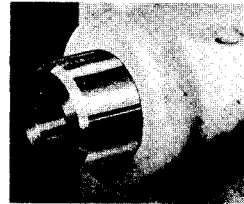
## METRIC EQUIPMENT

Metric lead screw, metric quick change box and metric graduations supplied in lieu of English at no extra cost. Metric transposing gears at extra cost. See page 59.



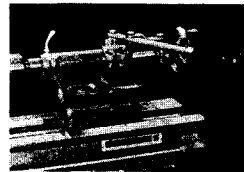
## COOLANT EQUIPMENT

Coolant pump, reservoir, oil pan and piping speed production and improve finish on many classes of work. Supplied at extra cost. See page 44.



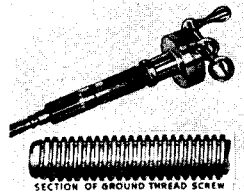
## HARDENED TAILSTOCK TAPER

Tailstock spindle with hardened and precision ground taper furnished in lieu of regular at small extra cost. See page 47.



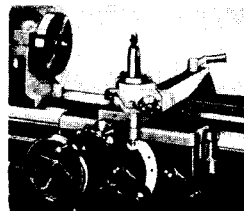
## HANDLEVER TAILSTOCK

Supplied in lieu of regular tailstock at extra cost. Also available as an extra. Speeds drilling and reaming operations. See page 39.



## GROUND THREAD CROSS-FEED SCREW

Special cross-feed screw assembly with hardened and ground thread supplied in lieu of regular at small extra cost. See page 47.



## SPECIAL FINISH

Any desired color or combination of colors can be supplied in lieu of the regular gray enamel finish on South Bend Lathes. See page 38 for extra charges.

## Standard Equipment —

### ENGINE LATHES (10"-1 1/8" Collet and larger)

Equipment supplied and included in the price of each South Bend Engine Lathe is as follows:

Thread indicator dial  
Thread cutting stop  
Small face plate  
Round tool post assembly  
60° Centers and spindle sleeve  
Necessary belting and motor pulley

Wrenches, installation plan and manual  
Prices of 10"-1 1/8" Collet Bench Lathes also include steel bench with built-in chip pan.  
Electrical equipment is not included. See pages 60-63.

### TOOLROOM LATHES (10"-1 1/8" Collet and larger)

South Bend Toolroom lathes are built to *ultra-precision* tolerances — even closer than our Engine Lathes. Special lead screw and spindle alignment tests are made on each toolroom lathe as it is assembled to assure precision for the most exacting toolroom work. In addition to all regular equipment supplied with South Bend Engine Lathes, the Toolroom Lathes have the following equipment:

Precision lead screw  
Handwheel collet attachment (less collets)  
Collet rack

Telescopic taper attachment  
Large face plate  
Chip pan  
Micrometer carriage stop